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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/533,285

04/28/2005

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6016

7590  
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09/25/2007

EXAMINER

FRANK, RODNEY T

ART UNIT

PAPER NUMBER

2856

MAIL DATE

DELIVERY MODE

09/25/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/533,285

Applicant(s)

MEKHANOSHIN ET AL.

Examiner

Rodney T. Frank

Art Unit

2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 June 2007.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 14-17 and 19-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 25-27, 30 and 34 is/are allowed.
- 6) ☒ Claim(s) 14, 17 and 20-23 is/are rejected.
- 7) ☒ Claim(s) 15, 16, 19, 24, 28, 29 and 31-33 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Claim Objections***

1. Claim 19 is objected to because of the following informalities: Claim 19 currently depends from a canceled claim 18. In a phone conversation with Mr. Ilya Zborovsky, the examiner was informed that claim 19 should depend from claim 14 now, since claim 18 is currently canceled. However, an examiner's amendment is not appropriate at this time and the examiner and the claim needs to be amended in response to this office action. However, due to the conversation with Mr. Zborovsky, for the sake of furthering the prosecution of this case, the claim 19 is examined as depending from claim 14. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 14, 22, and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Fernandes (U.S. Patent Number 4,794,327). Fernandes discloses a toroidal sensor module having a metallic outer skin and mounting means for installation upon and removal from an energized power conductor providing synchronized measurements of electrical parameters. In one embodiment the module is adapted to measure the values of voltage, current and phase angle of the conductor upon which it is mounted, and to communicate data representing such values to a ground station in the vicinity of the

sensor module. The voltage and current are sensed simultaneously to provide time-synchronized readings with respect to voltage zero crossings from which the phase relationship is determined. The metallic skin of the module may be either capacitively or electrically coupled to the conductor for purposes of making conductor voltage measurements. The toroidal housing is divided into two, mutually insulated sections to prevent an electrical short circuit loop on any peripheral path on the housing extending through both sections, thereby allowing the electromagnetic field of the conductor to be coupled to sensing elements within the housing (Please see the abstract).

With respect to claim 14, Fernandes discloses a device for remote monitoring of an overhead power transmission line conductor, comprising a housing provided with means for attaching on the overhead power transmission line conductor; and arranged in said housing a power supply, a sensor of temperature of the conductor, and a measuring transmitting module configured to receive signals from said sensor of temperature of the conductor, to convert them into digital data and to transmit the digital data for storing, collecting and processing. Columns 1 (lines 34 through 38) and 5 (lines 14 –19) disclose the sensing of the temperature of the conductor, figure 3 shows the housing, figure 5 shows the schematics of the power supply connections, the sensors, signal processing, sampling, storage, and control, and transmitter.

With respect to claims 22 and 23, Fernandes discloses a device as defined in claim 14, wherein said power supply is configured as rechargeable batteries, as disclosed in column 7, lines 24 through 27.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fernandes.
6. With respect to claim 20, while Fernandes discloses his device is described with respect to an RF communications system, in column 4, lines 62 through 68 disclose that other communications methods are possible.

With respect to claim 21, since the systems is described as being able to both transmit and receive signals, then there must be some polling protocol established in order for the monitoring disks to communicate with the receiving stations.

***Allowable Subject Matter***

7. Claims 25-27, 30, and 34 are allowed.
8. Claims 15-17, 19, 24, 28, 29, and 31-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney T. Frank whose telephone number is (571) 272-2193. The examiner can normally be reached on M-F 9-5:30 p.m. EST.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RTF

September 13, 2007

  
HEZRON WILLIAMS  
SUPERVISORY PATENT EXAMINER  
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